AKAI

VS-G245/G445EDG

VIDEO CASSETTE RECORDER

Intelligent-HQ *NTSC Playback on PAL*

AUTO TUNING

AUTO FUNCTIONS

4 PROG/ 1 YEAR TIMER REC

INDEX SEARCH

SP/LP

(G445 model only)

Thank you for purchasing this AKAI video cassette recorder. To ensure optimum performance of this unit, please read this operator's manual thoroughly.
Please note that the ☞ mark relates to differences between the G245 and G445 models.

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English | Po Polsku | По Русски | Česky

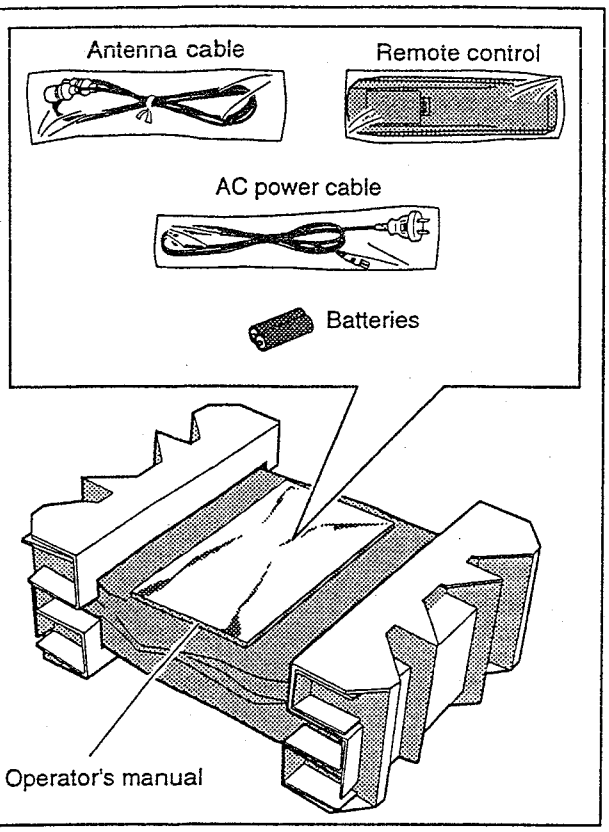
SHOWVIEW

HQ HIGH QUALITY VHS PAL

Use only video tapes marked "VHS" with this VCR.

Akai—Creative At Heart.

UNPACKING THE VCR



CAUTIONS

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

1-En

Power requirements

Power requirements for electrical appliances differ from area to area. Please ensure that your appliance meets the Power requirements in your area.
The operating voltage of this appliance is fixed at AC 220 - 240 V, 50 Hz.

2-En

This equipment conforms to N0. 82/499/EEC, 87/308/ EEC standards.

3A-En

This appliance is not equipped with a main power switch. Even when the appliance is turned off, the power supply is not completely turned off when the power cord is plugged in. Pull out the power cord when not using the appliance for long periods.

4-En

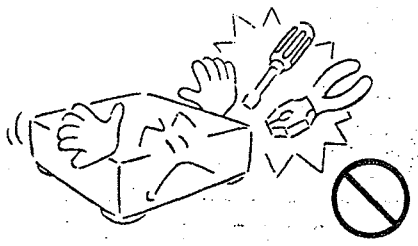
Make your contribution to protect the environment

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can. Please leave them at an appropriate depot.

29A-En

Never disassemble or modify the appliance in any way.

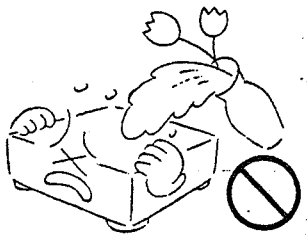
RISK OF FIRE OR ELECTRIC SHOCK



Avoid using the appliance where there is a lot of moisture and do not expose to water.

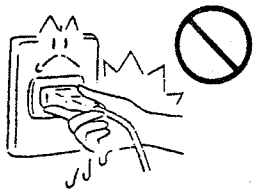
RISK OF FIRE OR ELECTRIC SHOCK

- If water is spilled on the VCR, disconnect the power cord at once and consult your dealer.



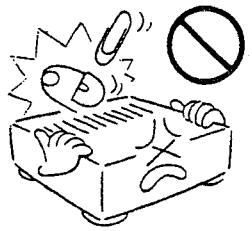
Never touch the power cord's plug with wet hands.

RISK OF ELECTRIC SHOCK



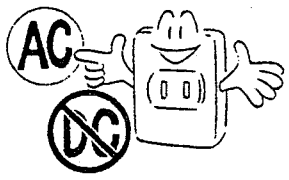
Never put anything, especially metal into the VCR.

RISK OF FIRE OR ELECTRIC SHOCK



Use a household AC power source only.
Never use a DC power source.

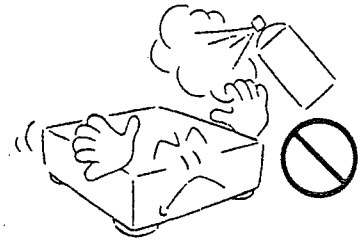
RISK OF FIRE OR ELECTRIC SHOCK



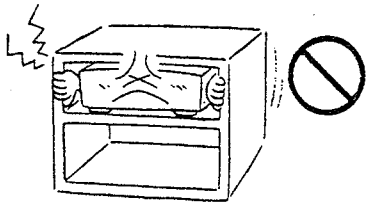
CAUTIONS

Avoid using aerosol sprays near the VCR.

RISK OF FIRE

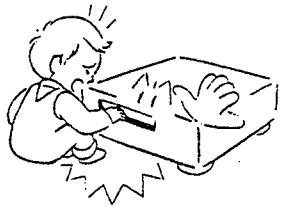


There should be at least 10cm space between the top, rear and sides of the VCR.

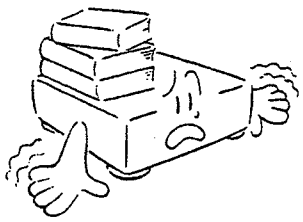


TAKE CARE!

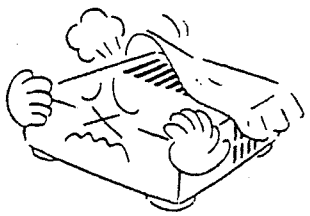
Take care that children do not put their hands in the cassette slot, as this may cause injury.



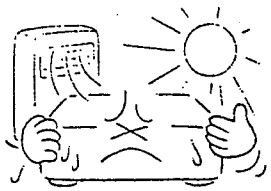
Do not place anything heavy on top of the VCR.



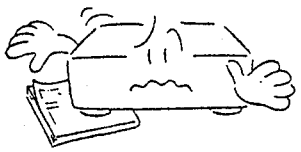
Make sure that the VCR is well ventilated and do not place anything on top of the ventilation holes.



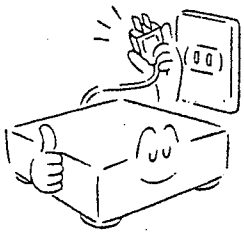
To avoid damage to the internal circuits and the external surface, keep the VCR away from heat (stoves, direct sunlight, etc.).



Place the VCR on a flat and solid surface.



If you do not plan to use the VCR for a long period of time, unplug the power cord.



Avoid using the VCR in extremely hot, cold, humid or dusty places.

- To avoid damaging the finish, never use paint thinner or other similar chemicals to clean the VCR.
- Avoid using the VCR near appliances generating magnetic fields.
- Avoid using the VCR near fluorescent lamps as this may shorten the operating range of the remote control unit.

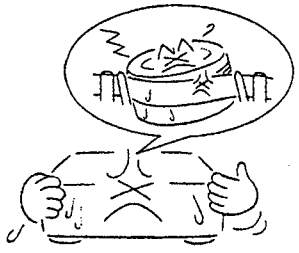
When transporting

- Avoid violent shocks to the VCR during packing.

CAUTIONS

Avoid moisture condensation

Moving the video cassette recorder from a cold place to a warm place can cause dew condensation on the drum and the video heads inside the unit. If playback is carried out in this state, the heads may become dirty and the tape may be damaged.
To prevent this from occurring, the power plug must be plugged in for about one hour with the POWER button off, before playback or recording of a video cassette tape.
This is particularly important when a video cassette is inserted for the first time after purchase of the video cassette recorder.



Power failure backup
This VCR utilizes a back-up capacitor for possible power failure. The back-up capacitor prevents clock stoppage and loss of programme information (for timer-controlled recording) in the event of a power failure lasting up to 60 minutes. (When this VCR is first plugged in, approximately 60 minutes are required to charge the back-up capacitor in order to provide 60 minutes of back-up time).

Power failure indication
If a power failure of more than 60 minutes has occurred "0:00" will be flashing on the FL display. In this case the clock must be re-set. Refer to the "Setting the clock" section.

In case of malfunction

A large amount of static electricity may cause this VCR to malfunction or stop functioning completely. In this case, press the reset button (see page 5) to reset the micro-processor. Clock and programme data will be cancelled when the reset button is pressed.

INTELLIGENT-HQ (I-HQ)

What is I-HQ?
Well, in simple terms, it is a way of getting the best picture quality out of your video tapes during recording and playback.

For example, if you use S-VHS (highest quality) video tapes for recording you will get a picture quality that is greatly improved over normal (non I-HQ) VCRs.
When recording with high grade tapes (S-VHS etc.) on a normal (non I-HQ) VCR you don't get the full benefit of the visual range available with these tapes.

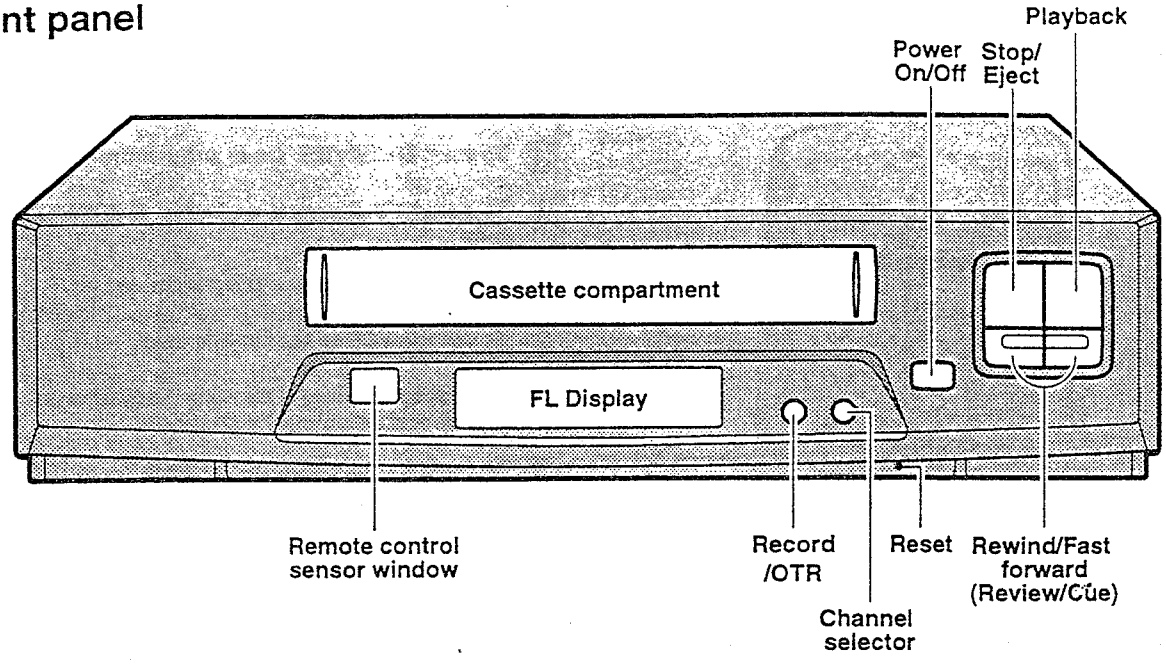
Of course, I-HQ optimizes the quality of all your video tapes. Because, when you press the I-HQ and record buttons, the VCR reads and memorizes the characteristics of the tape and so uses the full potential of that tape.
This is the same operation that is found on high quality audio cassette decks.

During playback, I-HQ optimizes noise cancellation and the reproduction of detail.

NOTES:
- I-HQ also improves the picture quality of tapes that have picture "noise" through being played many times (rental tapes for example).
- Tapes recorded on this VCR can be played back on other non I-HQ VCRs, and vice versa.
- Tapes recorded on an S-VHS VCR can not be played back on this VCR and vice versa.
- Please take care when choosing high grade tapes. If you are in doubt use S-VHS or PRO tapes for assured quality. We also recommend the use of E-180 length tapes for the best results.

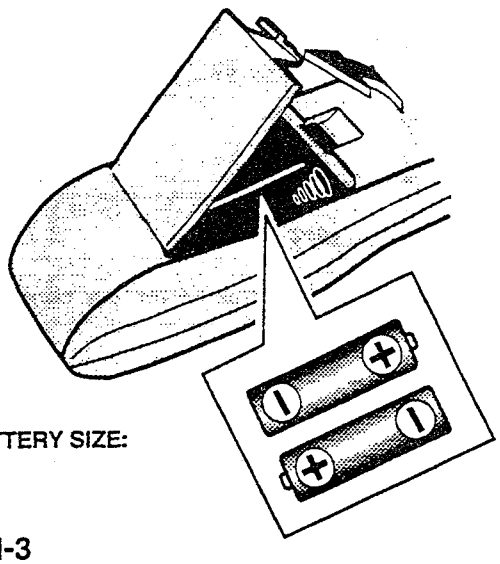
KNOW YOUR VCR

Front panel

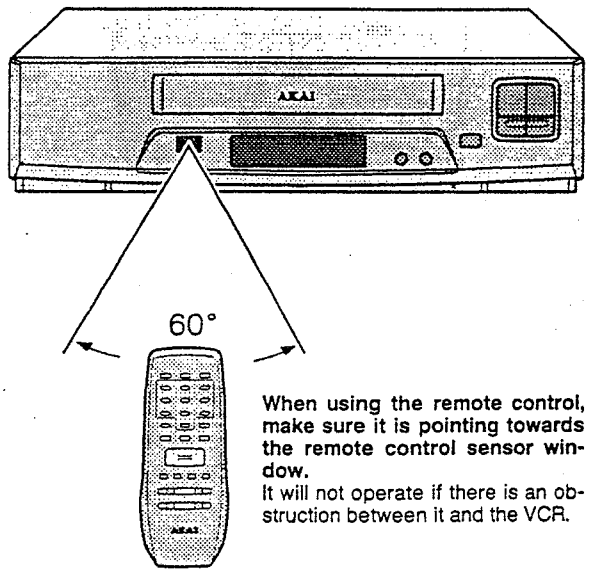


The above illustration shows the G245 model. However, the controls are the same for both models.

Remote Control Batteries



BATTERY SIZE:
AA
R6
UM-3



When using the remote control, make sure it is pointing towards the remote control sensor window.
It will not operate if there is an obstruction between it and the VCR.

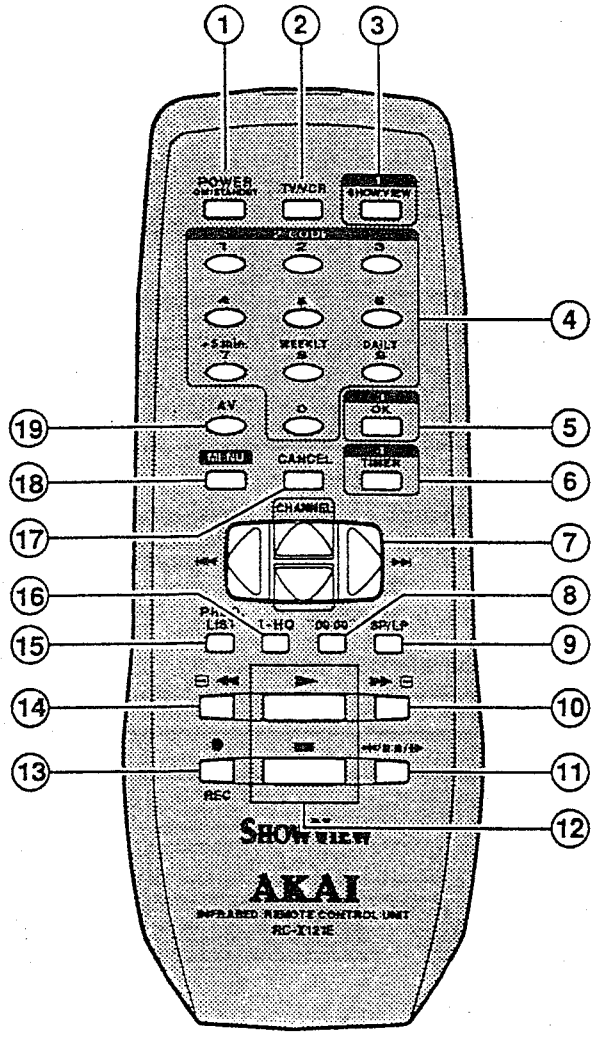
(The above illustration shows the G245 model)

NOTES

Please note the following carefully.
Incorrect battery use poses a danger of leakage or bursting. If battery fluid does leak, clean the battery compartment carefully before inserting new batteries.

- Replace the batteries when the remote control only operates at close range.
- Ensure that the batteries are inserted with the correct polarity (+/−).
- Replace both batteries at the same time. Do not mix old and new batteries.
- If you are not going to use the remote control for a long period, remove the batteries. This will prevent leakage from the batteries and corrosion in the battery compartment.
- As the supplied batteries have been in the carton since leaving the factory, their normal life-span may have been shortened.

REMOTE CONTROL



① To turn the VCR power On/Off

② To select the TV or Video (VCR) mode

③ To start SHOWVIEW timer programming

④ To select TV channels and enter SHOWVIEW numbers

⑤ To confirm data when programming

⑥ To set the VCR to the timer mode

⑦ For programming, tracking adjustment, index search and selecting TV channels

⑧ To reset the tape counter to zero

⑨ To set the tape speed for recording (G445 model only).

⑩ To fast forward or cue the tape

⑪ To freeze the playback picture, start slow motion play or pause the tape during recording

⑫ ► To start playback
■ To stop the tape

⑬ To start recording

⑭ To rewind or review the tape

⑮ To display programmes set for timer recording

⑯ To set I-HQ on or off

⑰ To cancel data

⑱ To display the MENU

⑲ To select the external channel for tape copying etc.

SHOWVIEW IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORP. SHOWVIEW SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

GETTING STARTED

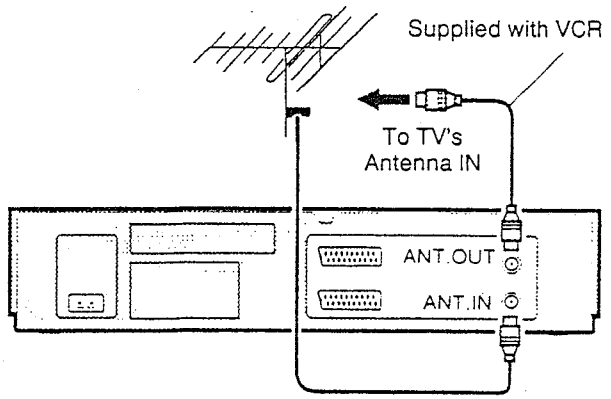
THE VCR AUTOMATICALLY TUNES IN THE TV STATIONS WHEN IT IS PLUGGED IN, SO PLEASE MAKE SURE THAT THE ANTENNA IS CONNECTED BEFORE PLUGGING THE VCR IN.

Set the RF.OUT switch, on the rear panel, to the colour system used in your country:
K: Eastern Europe
G: Western Europe

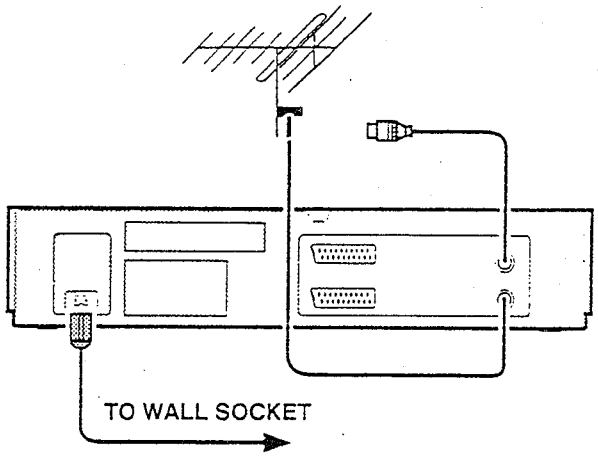
When the VCR is plugged in, "AUTO TUN" will flash on the FL display, when tuning is finished the power will be turned off and "AKAI" will flash on the FL display.
Auto tuning takes about 3 minutes. During this time do not press the power button or insert a tape as this will cancel auto tuning.
If tuning is cancelled, refer to "Tuning in the TV stations".

CONNECTIONS

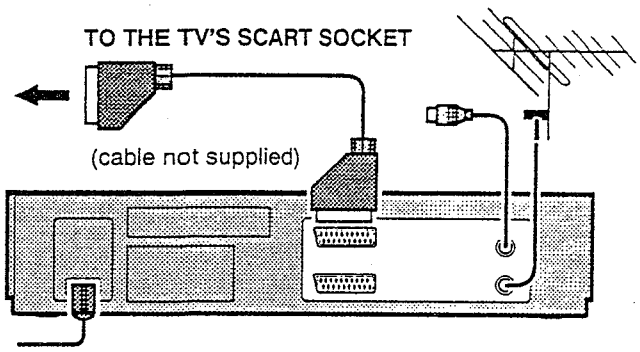
1 Connect the antenna cables



2 Connect the power cable



3 (OPTIONAL) IF YOUR TV HAS A SCART SOCKET



THERE IS NO NEED TO TUNE IN THE VIDEO CHANNEL IF USING CONNECTIONS 1, 2 AND 3.
IF YOU ARE ONLY USING CONNECTIONS 1 AND 2, SEE THE INSTRUCTIONS BELOW FOR SETTING THE VIDEO CHANNEL.

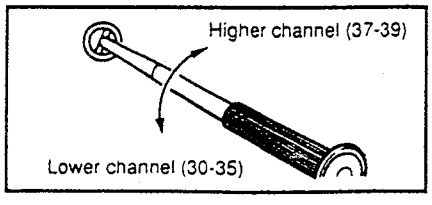
Connection 3 gives better sound and picture quality and also allows you to select the **TV's** VIDEO or TV mode with the remote control's TV/VCR button.
Simply turn on the TV and go through the TV channels with the **VCR's** CHANNEL buttons to check that the TV picture **from the VCR** is being received.

VIDEO CHANNEL (IF ONLY USING CONNECTIONS 1 AND 2)

First, check your TV's operator manual to make sure that your TV has an exclusive channel set aside for video use (ie: channel 50), then set your TV to that channel.
Then, refering to your TV's operator manual, tune that channel into UHF channel 36 (or until the TV picture from the VCR appears).
Press the **VCR's CHANNEL** buttons a few times to check that the picture **from the VCR** is being received (the TV channels should change).
Always select this channel when you want to use the VCR.

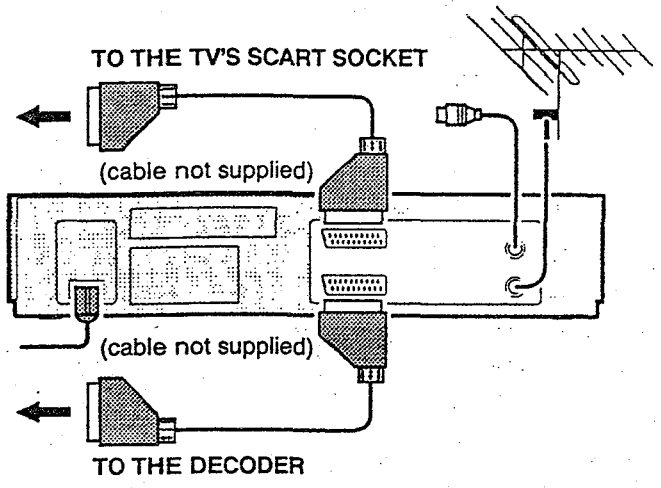
Note:
- If your TV does not have an exclusive video channel, select an empty channel and tune it in until the TV picture from the VCR appears.
  In this case, there may be some picture "noise" on the screen.

If UHF channel 36 is being used:
1. Set the TV to a channel between UHF 30 and 39.
2. Use a screwdriver to turn the RF OUT CH.ADJ. screw on the rear of the VCR until the TV picture appears.



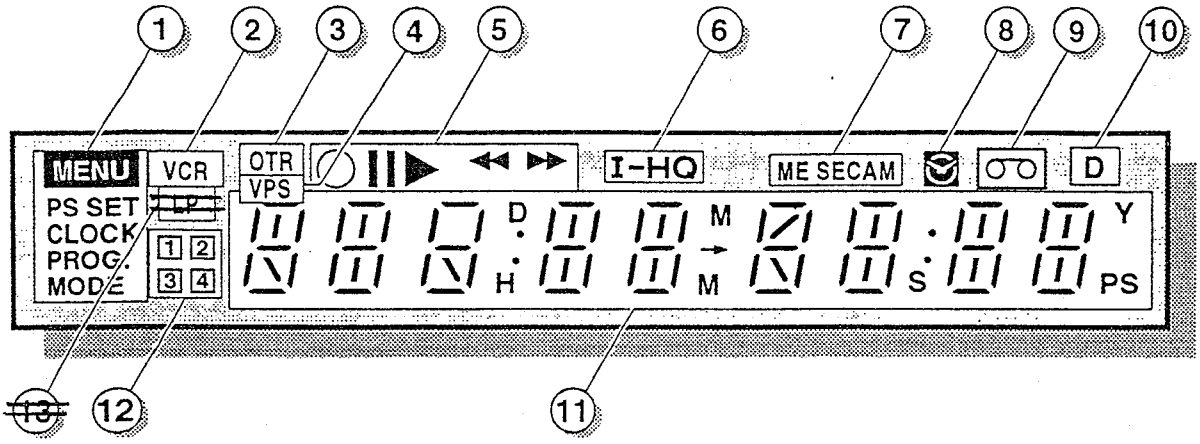
3. Press the **VCR's** CHANNEL button to check that the TV picture from the VCR is being received.

DECODER CONNECTION



To set the decoder feature on and off, please refer to page 18.

DISPLAYS...WHAT THE VCR IS TELLING YOU



① Shows which of the MENU features is selected.

② Lights when the VCR is set to the video mode.

③ Lights when using OTR (One Touch Recording).

④ Lights when VPS is set to ON and a station sending a VPS signal is received.

⑤ Shows the playback/recording modes (see below).

⑥ Lights when the I-HQ mode is on.

⑦ Lights during playback of MESECAM tapes.

⑧ Lights when the VCR is in the timer mode.

⑨ Lights when a tape is inserted in the VCR.

⑩ Lights when a station is selected that has the decoder feature set to ON.

⑪ Shows the time, TV channel number and times for timer recording. Also other displays, explained in detail later in the manual.

⑫ Shows which programme numbers have been set for timer recording.

~~⑬ Lights when the VCR is in the long play mode (recording and playback). (G445 model only)~~

○	RECORDING	▷▷	FAST FORWARD
○ II	RECORDING PAUSE	◁◁	REWIND
▷	PLAYBACK	▷ ▶▶	CUE
II ▷	STILL	▷ ◀◀	REVIEW
I ▷	SLOW	SC-3	INDEX SEARCH

GLOSSARY

RECORDING PAUSE: When the tape is temporarily paused during recording.

STILL: When the playback picture is frozen.

SLOW: Slow motion playback.

FAST FORWARD: When the tape is advanced rapidly in the forward direction from the stop mode (not during playback). No picture appears.

REWIND: When the tape is advanced rapidly in the reverse direction from the stop mode (not during playback). No picture appears.

CUE: When the tape is advanced rapidly in the forward direction during playback. Picture is visible.

REVIEW: When the tape is advanced rapidly in the reverse direction during playback. Picture is visible.

INDEX SEARCH: When the VCR searches for index codes, added to the beginning of recordings, so that you can skip directly to the recording that you want to watch.

MENU

Sometimes you need to use the MENU to access certain features.

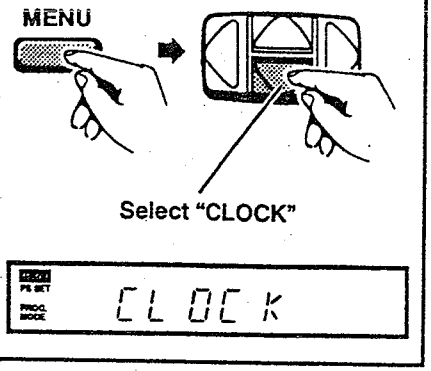
The illustration on the right is an example from the clock setting section:

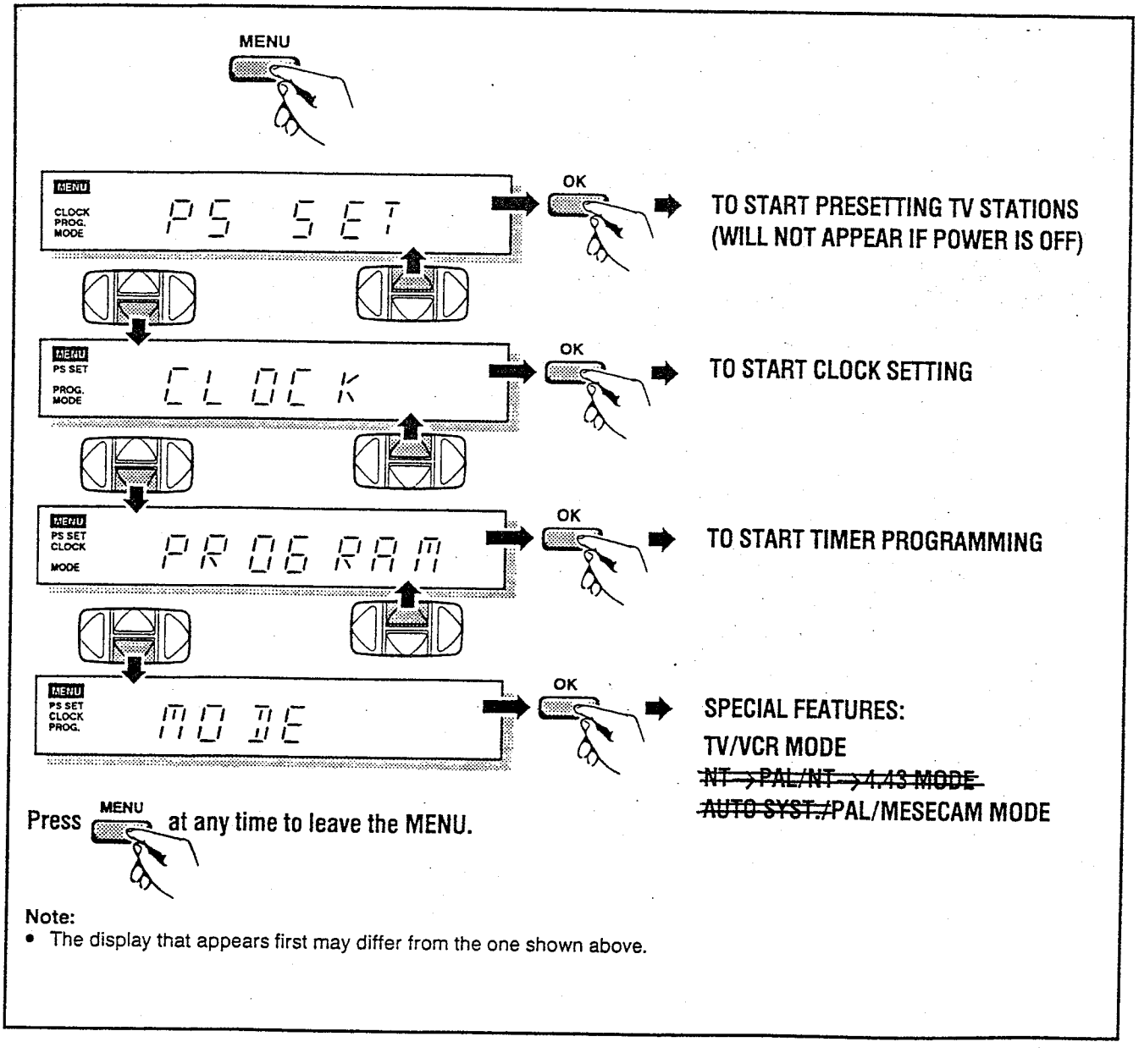
How to use:
Press the remote control MENU button and then press the ∨ button until "CLOCK" appears on the FL display.

The illustration below shows the features contained in the MENU and how to access them (all the buttons are on the remote control).

Full information about each mode is explained in the relevant sections later in the manual.

1 Enter the clock set mode





Note:
- The display that appears first may differ from the one shown above.

TV/VCR MODE

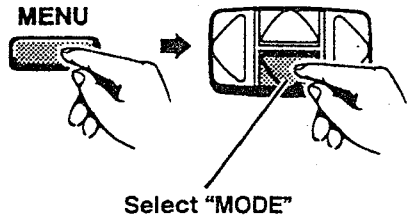
This section only applies if the VCR is connected to the TV with a SCART cable (see page 7, step 3).

This VCR is automatically set to the VCR (VIDEO) mode ("VCR" is lit on the FL display) ready for VCR operation (playback, TV channel viewing, etc.).

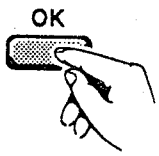
You can set the VCR to the TV mode if you would rather use your TV's tuner to watch TV programmes.

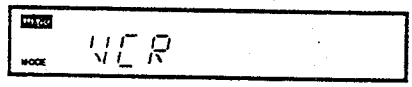
If the VCR is set to the TV mode, press the TV/VCR button until "VCR" lights on the FL display when you want to use the VCR.

1 Go to the MODE display

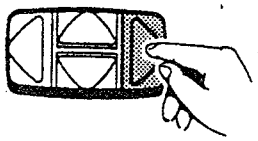


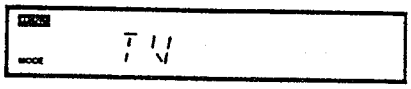
2



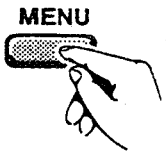


3 Set to TV mode





4 Quit MODE display



NOTES

- To set the VCR back to the VCR mode, repeat steps 1-4, but in step 3, set to "VCR".

SETTING THE CLOCK

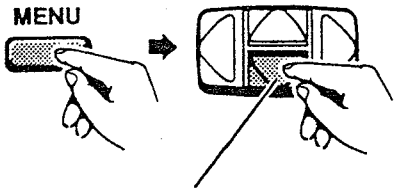
This VCR uses a 24 hour clock: 7:30pm = 19:30.

The example below is for 1:33pm , 8th November 1996.

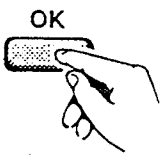
The clock can be set with the VCR power on or off.

All the buttons illustrated in the following instructions are on the remote control.
The <, >, ∧ and ∨ buttons operate as follows:
</> : To move to the left or right.
∧/∨ : To increase or decrease numbers.

1 Select CLOCK mode

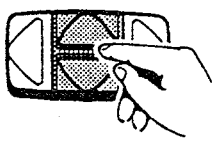


2 Enter CLOCK mode

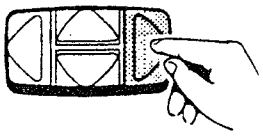


Flashing

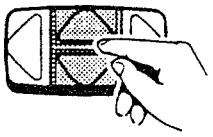
3 Set the hour



4 Move to the minutes

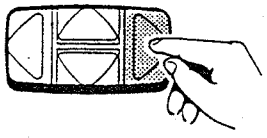


5 Set the minutes

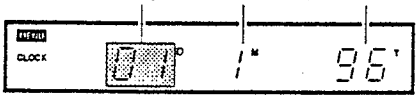


Hold button down to increase minutes in 5 minute increments.

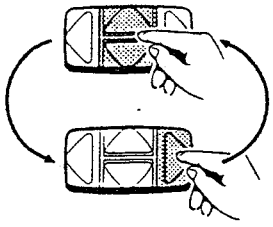
6 Move to the date



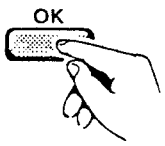
Day Month Year



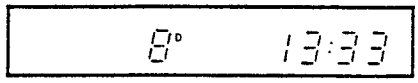
7 Set the Day/Month/Year



8 Start the clock



OR



NOTES

- **STEP 3:** If the clock is already set, press the > button to start the hour position flashing.
- Data must be entered within 5 minutes from when the position starts flashing or the clock setting mode will be cancelled.
- To correct data use the <, >, ∧ and ∨ buttons to move to and enter the new data.
- You can go back to step 1, at any time, by pressing the CANCEL button.
- If you want to leave the clock setting mode, press the MENU button.

TUNING IN THE TV STATIONS

ATTENTION
This VCR automatically tunes in the TV stations when it is plugged in, so please make sure that the antenna is connected before plugging it in.
However, if you want to re-tune, cancel or change any of the stations, please refer to this section.

You can use the VCR to watch TV programmes by setting the TV to the VIDEO channel and then selecting the programme that you want to watch with the VCR's CHANNEL buttons.

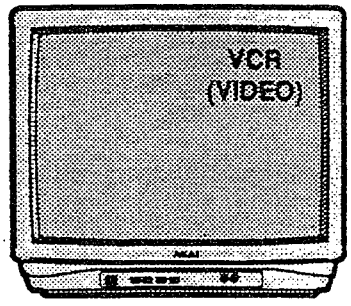
The VCR must be tuned to the TV stations so that you can record TV programmes. Up to 60 stations can be stored.

If you perform AUTOMATIC TUNING when there are already TV stations tuned in, they will be cancelled and replaced with the new ones.

FIRST, TURN ON THE VCR AND TV.

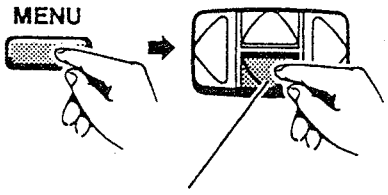
AUTOMATIC TUNING

1 Set TV to video channel

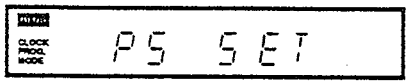


(See page 7)

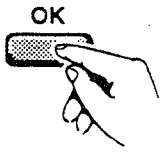
2 Select PS SET mode



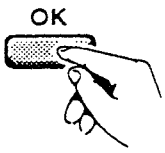
Select "PS SET"



3 Enter PS SET mode



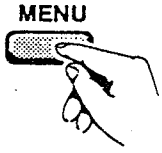
4 Start auto tuning



Presetting is finished

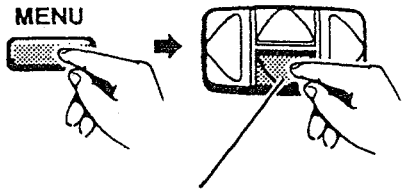
You can now cancel any unwanted programmes by following steps 4-7 of "Cancelling Unwanted TV Channels" **OR** go on to step 5 and leave the tuning mode.

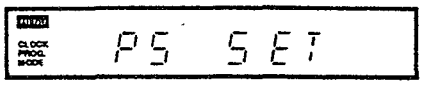
5 Leave presetting mode



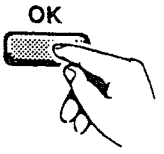
CANCELLING UNWANTED TV CHANNELS

1 Select PS SET mode

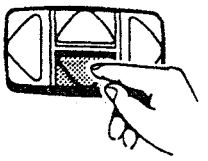




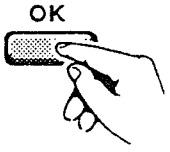
2 Enter PS SET mode



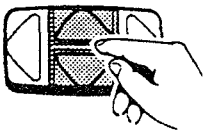
3 Select CANCEL



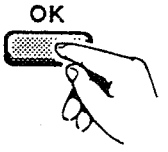
4 Enter CANCEL mode



5 Select channel to be cancelled



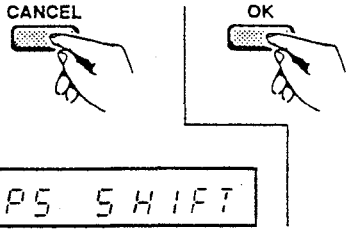
6 Cancel the channel



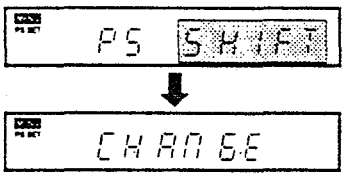
Repeat 5 and 6 to cancel other stations.

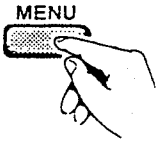
7 Exit the CANCEL mode

After cancelling channels, you may be left with non consecutive channel numbers (1, 3, 4, 7 etc.). To change them to consecutive numbers (1, 2, 3, 4 etc.):



YOU CAN SKIP THIS STEP AND GO DIRECTLY TO STEP 7.

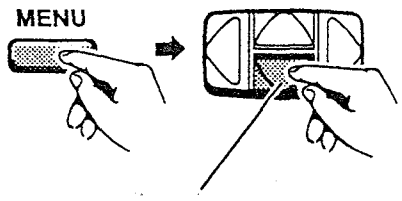


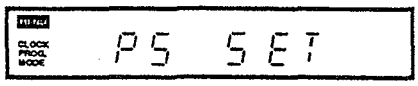


CHANGING THE TV CHANNEL NUMBERS

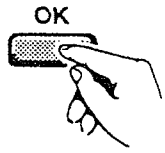
The example below shows how you can change channel number 2 to become channel number 6.

1 Select PS SET mode

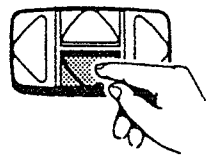




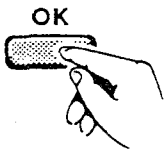
2 Enter PS SET mode



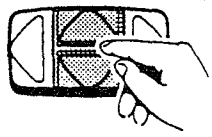
3 Select CHANGE



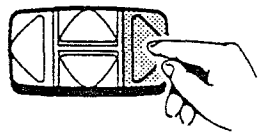
4 Enter the CHANGE mode

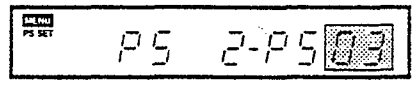


5 Select channel number to be changed

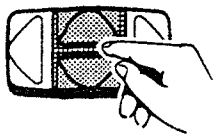


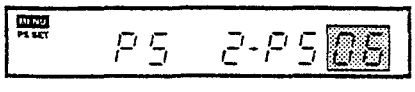
6 Move to the new channel number position



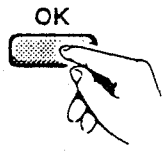


7 Enter new channel number



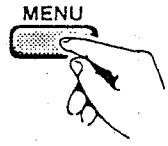


8 Save the new number



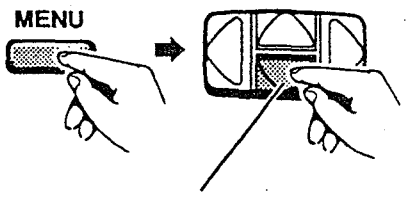
REPEAT STEPS 5-8 TO CONTINUE CHANGING CHANNEL NUMBERS

9 Exit the change mode

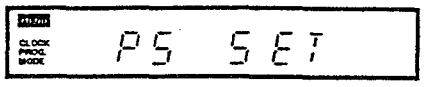


MANUAL TUNING

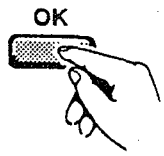
1 Select PS SET mode



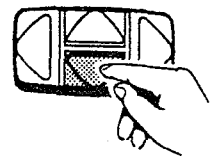
Select "PS SET"



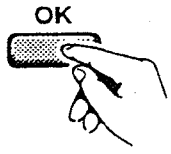
2 Enter PS SET mode



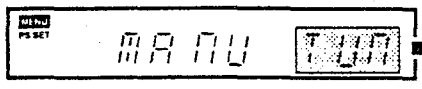
3 Select MANU TUN



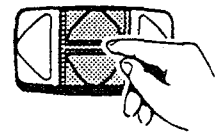
4 Start manual tuning



The first station is tuned in automatically. If you do not want to save this station, press the > button until you reach a station that you want to save.



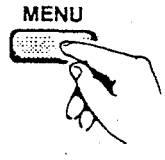
5 Select a channel number



6 Save the station

REPEAT 5 AND 6 UNTIL ALL STATIONS ARE TUNED IN

7 Leave the tuning mode



NOTES

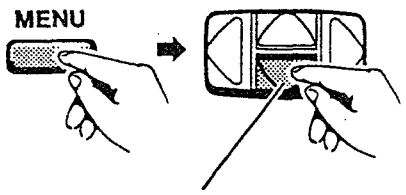
STEP 4: If "FULL" appears, all the available presets are full. If you want to cancel any of the existing stations, see "Cancelling unwanted TV channels".
STEP 5: Only channel numbers that have not already been preset can be selected.
STEP 6: The next station is automatically tuned in, as in step 4.

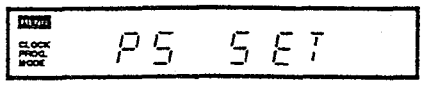
To quit the tuning mode, press the MENU button at any time.

DECODER FEATURE

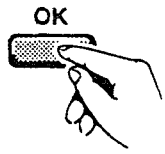
To watch coded programmes, a decoder must be connected to the VCR (see page 8).

1 Select PS SET mode

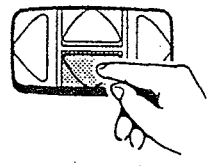


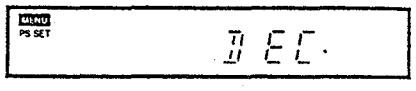


2 Enter PS SET mode

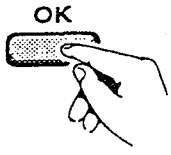


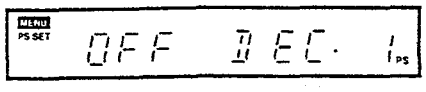
3 Select DEC



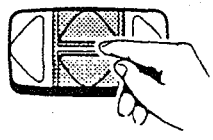


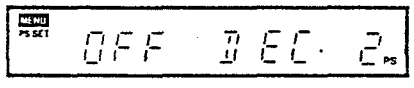
4 Enter decoder mode



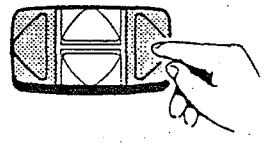


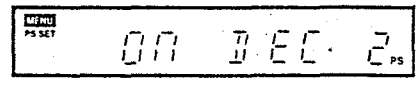
5 Select a TV station



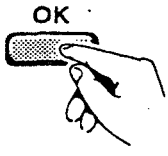


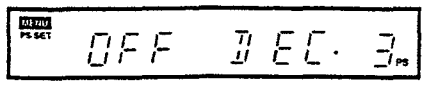
6 Set decoder to ON or OFF



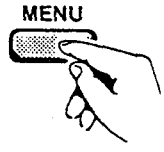


7 Save into memory





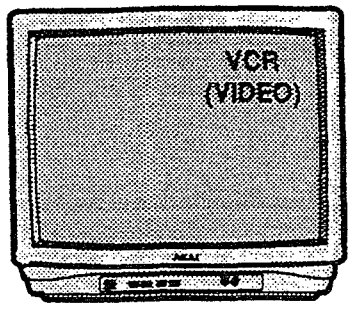
8 Leave the decoder mode



PLAYBACK

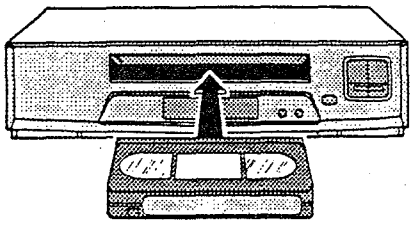
To set the VCR for NTSC tape playback, please refer to the page after next.

1 Set TV to video channel



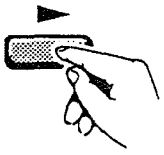
(See page 7)

2 Load a tape

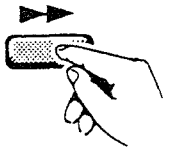


(The above illustration shows the G245 model)

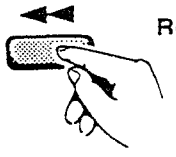
3 Start playback



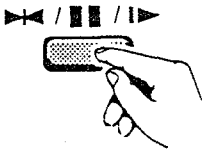
4 Stop/eject the tape



Cue



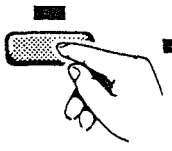
Review



Still/Slow
(Remote control only)

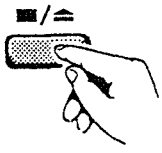
Press once (do not hold down) for still. Each time the button is pressed the picture will advance one frame. Hold down then release for slow motion.
Press play ► again to start playback.

Stop



(Remote control)

Stop/Eject



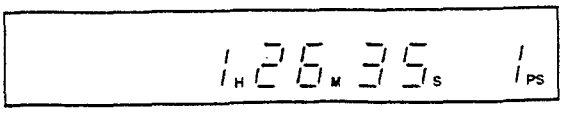
(Front panel)

NOTES

- **STEP 3:** The I-HQ and ▷ indicators light on the FL display. ▷ will flash until automatic tracking is finished.
  If there is any disturbance in the playback picture, see "Getting the Best Out of Your Playback Picture" on the next page.
  If the recording protect tab on the back of the tape is removed, playback will begin automatically.
- ☞ The VCR automatically selects either standard or long play (G445 model only).
- ☞ As the G245 model only has 2 video heads, it is not possible to get perfect still or slow motion pictures.
- ☞ PAL/NTSC/MESECAM long play or extra play pre-recorded tapes can not be played back on this VCR (G245 model only).
- The VCR automatically selects between PAL and MESECAM playback. However, if a tape does not play back correctly, refer to "MESECAM playback" on the next page.
- **STEP 4:** The front panel ■ / ⏏ button must be pressed twice during playback to eject the tape.
- There will be no colour during the cue, review and still modes.
- From fast forward, rewind, cue and review, press the play ► button to start playback.
- You can fast forward or rewind the tape when the tape is not playing back by pressing the ►► and ◄◄ buttons.
- If the videotape is left in the still, slow, cue or review mode for approximately 5 minutes, the mode will be cancelled.
- If the tape runs out during playback, it will stop and be rewound.
- Playback of E-300 tapes is not recommended.

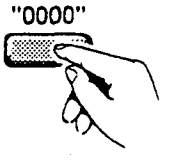
Tape counter

The tape counter shows the elapsed playback time in Hours, Minutes and Seconds.
The tape counter will not count unrecorded spaces on the tape.



To set the counter back to zero

"0000"



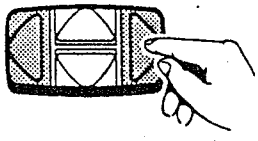
GETTING THE BEST OUT OF YOUR PLAYBACK PICTURE

Tracking adjustment

If lines appear accross the screen during the playback, still and slow modes:

☞ As the G255 model only has 2 video heads, it is not possible to get a perfect still picture.

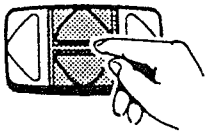
If picture still doesn't clear:



Adjust until lines disappear

Picture shake

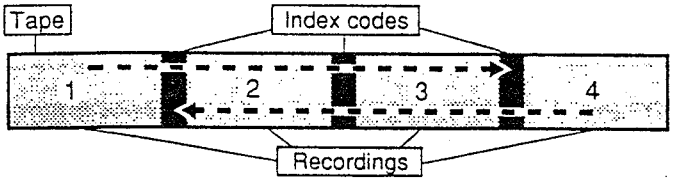
If the picture is shaking during the still mode:



INDEX SEARCH

Each time a recording is made (except from the recording pause mode) an index code is added to the tape. Index search is used to go directly to these codes, so that you can skip recordings and go straight to the programme that you want to watch.

Example, forward search: to go to recording 4 from recording 1
..... press ▶▶| button 3 times



Example, reverse search: to go from recording 4 to recording 2
..... press |◀◀ button 3 times

From the stop/fast forward/rewind mode:

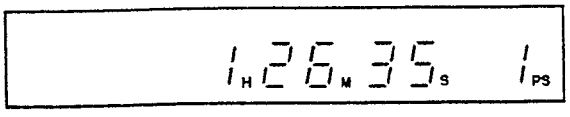
Forward search

Reverse search

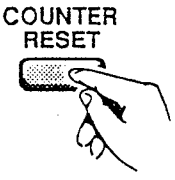
The tape will automatically start playback when it reaches the selected number.

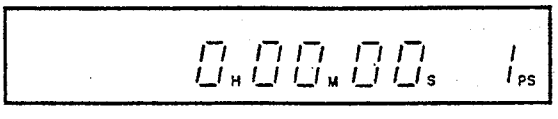
Tape counter

The tape counter shows the elapsed playback time in Hours, Minutes and Seconds.
The tape counter will not count unrecorded spaces on the tape.



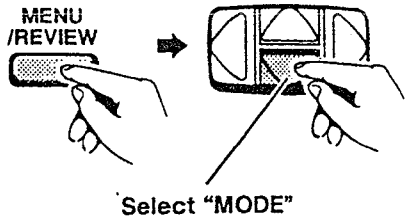
To set the counter back to zero

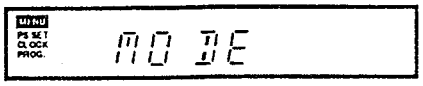




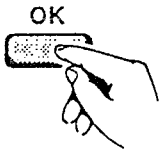
MESECAM PLAYBACK

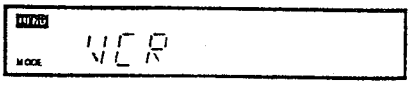
1 Select MODE



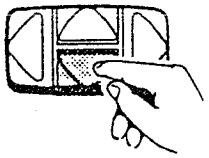


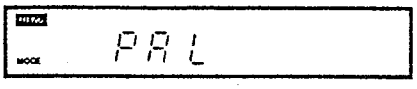
2 Enter MODE



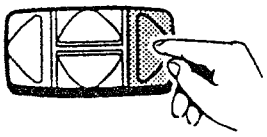


3 Select PAL

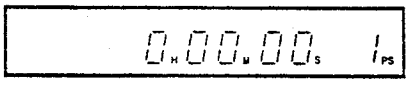




4 Select MESECAM



5 Quit MODE



NOTES

STEP 3: MESECAM or PAL may appear, depending on the system already selected.
STEP 4: Set back to PAL to return to PAL system.

NTSC PLAYBACK

NTSC is the colour system used in America, Canada, Japan, etc. On many VCRs you can not play back tapes recorded in these countries as they are not compatible with the PAL system (which is used in your country).

This VCR is capable of playing back these tapes and automatically selects between PAL and NTSC playback.

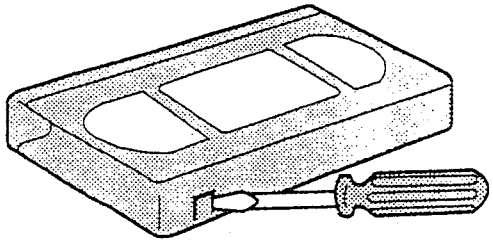
- **If an NTSC tape does not seem to be playing back properly:**
  Press the ► button (this alternates between PAL and NTSC playback) until the picture clears.
- **If disturbances appear on the screen:**
  Adjust the tracking until you get the clearest picture (see "Tracking Adjustment").
- **If the playback picture rolls:**
  Adjust the picture with the TV's vertical hold control (this adjustment may not be possible with some TVs).

Notes:
- The vertical size of the playback picture will be reduced slightly.
- The colour of the playback picture may differ from the original.
- There may be no colour during the cue, review and still modes.

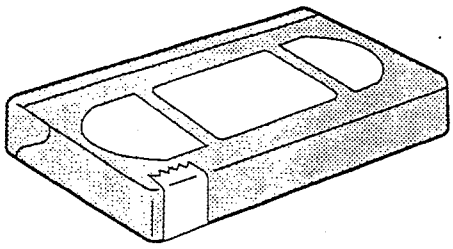
RECORDING

TO PROTECT RECORDINGS THAT YOU WANT TO KEEP

Break off the recording protect tab. The tape will then be ejected if the record button is pressed.



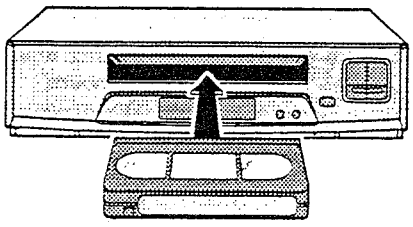
If, later, you want to record over the tape, cover the hole with adhesive tape.



1 Set TV to video channel

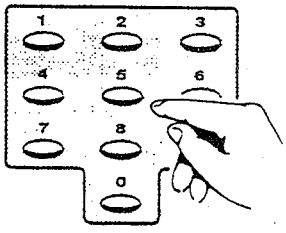
(See page 7)

2 Load a tape



(The above illustration shows the G245 model)

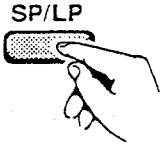
3 Select TV channel



Example:
Channel 2 ..... Press 0 then 2
Channel 24 ..... Press 2 then 4

G445 MODEL ONLY

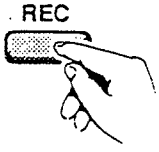
Set the tape speed



LP : Long Play (twice normal recording time)
No display : Normal speed

4 Start recording

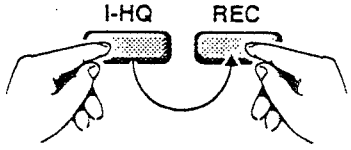
NORMAL RECORDING:



Hold down until a red circle appears on the FL display.

I-HQ RECORDING

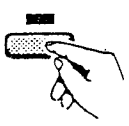
Remote control



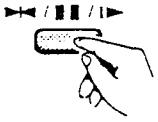
Press I-HQ then REC, hold both down until "I-HQ" lights on the FL display. When "I-HQ" stops flashing (about 15 seconds), press REC.

5 Stop/pause recording

Stop:



Pause:



Resume recording:

NOTES

- **STEP 3:** The ∧/∨ buttons can also be used.
- **STEP 4:** The red circle will flash, for about 4 seconds, to show that an index code is being added (see "Index search"). Press the remote control REC button any time during recording if you want to add extra index codes.

  You can go directly to the recording pause mode by pressing ▶◀/▮▮/▮▶ button, and then when you are ready to start recording, press the REC button. No index codes are added from the recording pause mode.
  For full information about I-HQ, see the "I-HQ" section.
- **STEP 5:** Recording pause will be cancelled after about 30 minutes.
- If the tape ends during recording, it will stop and rewind automatically.
- To eject the tape during recording, press the front panel ■/⏏ button twice.

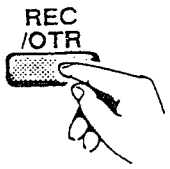
OTR (ONE TOUCH RECORDING)

OTR is used to set the stop time of a programme that you have already started recording (the VCR must have been recording for at least 5 seconds).

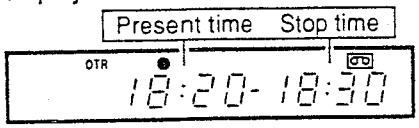
ONLY THE FRONT PANEL REC/OTR BUTTON CAN BE USED TO SET THE OTR TIME.

For example, you have started recording a programme (as shown on the previous page) and you want to go to bed before the programme is finished.

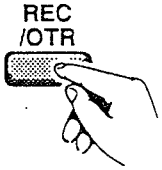
1 During recording



Hold until "OTR" flashes on the FL display.

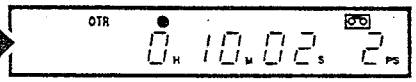


2 Set the stop time



Each press = 30 minutes

After setting the stop time, the tape counter display will re-appear.



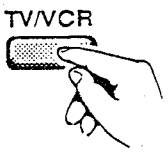
NOTES

- **STEP 2:** The first time the button is pressed, the time will advance to the next half hour or hour.
  Example: 18:20 → 18:30 / 18:35 → 19:00
- If you keep pressing the REC/OTR button until "END" appears, the VCR will record to the end of the tape, eject it and the power will be turned off.
- The stop time can be set up to a maximum of seven and a half hours.
- If the clock is not set, you can not use OTR.
- To cancel OTR, press the TIMER button. The VCR will go back to the normal recording mode.

TO WATCH A DIFFERENT TV PROGRAMME THAN THE ONE YOU ARE RECORDING

1

(VCR's remote control)

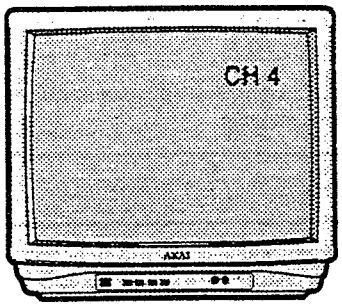


"VCR" will disappear from the FL display.

2

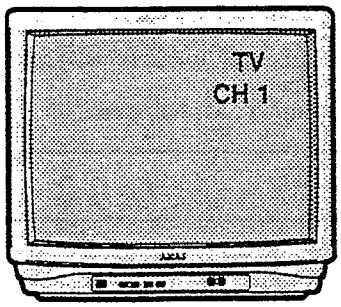
For connection 1/2 on page 7

Press the TV's channel button to select the channel that you want to watch.



For connection 3 on page 7

Press the TV's TV/VCR button to select "TV", then select the channel that you want to watch.



NOTES

- To return to the programme that you are recording:
- Set the TV back to the VIDEO channel.
- Press the TV/VCR button again.

SHOWVIEW TIMER RECORDING

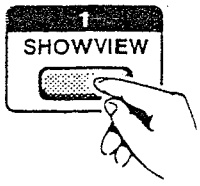
This is a quick and easy way of automatically entering all the information for timer recording by simply entering the SHOWVIEW numbers that are shown next to the programmes in TV magazines, newspapers, etc..

For example, your TV magazine may look something like this:
(The numbers on the right are the SHOWVIEW numbers)

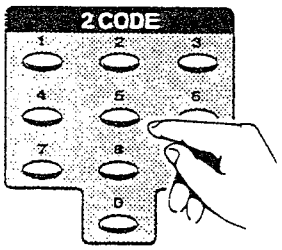
21:00-21:30 NEWS HEADLINES 62515
21:35-23:00 MOVIE 202541
Star Wars
23:05-23:15 WEATHER 8154

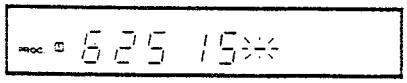
- ALL THE BUTTONS SHOWN ARE ON THE REMOTE CONTROL.
- THE REMOTE CONTROL MUST BE POINTING AT THE VCR DURING THE FOLLOWING OPERATION.

1 Press SHOWVIEW

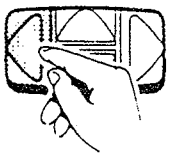


2 Enter code number





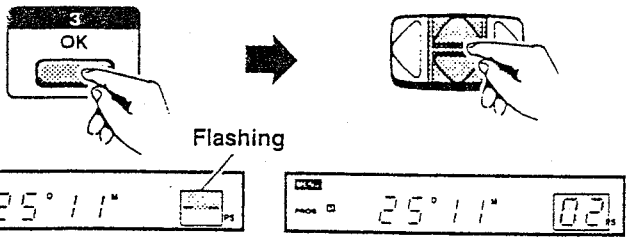
If you make a mistake when entering the code:



Deletes numbers to the left.
To cancel all the numbers, press CANCEL and repeat step 2.

2a Enter TV channel number

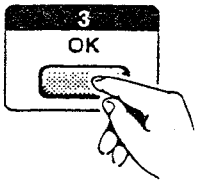
For example, if the programme is on BBC 2: enter the channel number that BBC 2 is tuned to on the VCR (in this case channel 2).

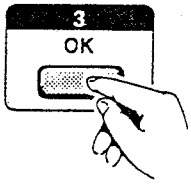


THIS STEP ONLY HAS TO BE DONE ONCE FOR EACH TV CHANNEL.

The next time that you enter a code for the same TV channel, go directly to step 3, as the channel number will be entered automatically.

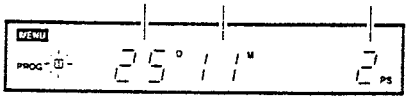
3 Check start / stop times — Check date / channel





Start Stop

Day Month Channel

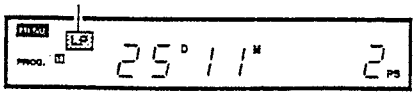


G445 MODEL ONLY

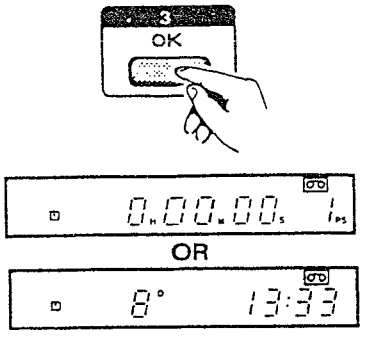
Set the tape speed

SP/LP

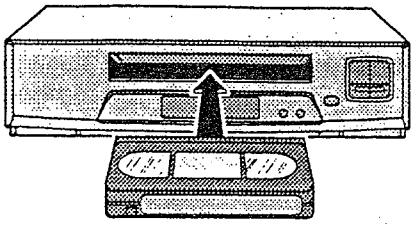
LP : Long Play (twice normal recording time)
No display : Normal speed



4 Quit SHOWVIEW mode

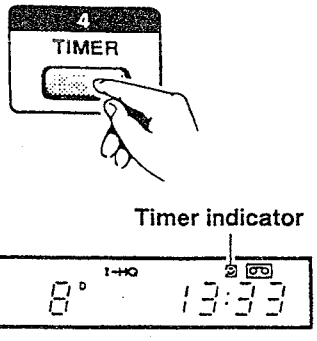


5 Load a tape

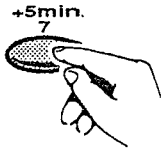


(The above illustration shows the G245 model)

6 Set VCR to TIMER mode



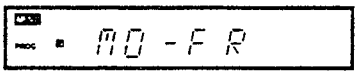
IN STEP 3, IF YOU WANT TO INCREASE THE STOP TIME OF THE RECORDING:



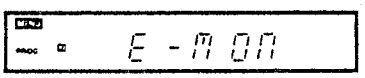
Keep pressing to increase time by 5 minute increments.

AUTOMATIC DAILY/WEEKLY RECORDING

In step 3, you can automatically record a programme that is on at the same time every day or once every week:



MO-FR : Monday to Friday



E-SUN : Every Sunday
E-MON : Every Monday
E-TUE : Every Tuesday
E-WED : Every Wednesday
E-THU : Every Thursday
E-FRI : Every Friday
E-SAT : Every Saturday

SHOWVIEW NOTES

- **STEP1:** "FULL" will appear on the FL display if all timer programmes have data already entered.
- **STEP 2a and 3:** If a non recognizable code is entered, "Err" will appear on the FL display. Re-enter the correct code.
- **STEP 6:** If there is no tape loaded, the timer mode will not engage. In this case, load a tape and press TIMER again. If the tape's recording protection tab is removed, the tape will be ejected when TIMER is pressed.
- If you do not enter data within 5 minutes of the position starting to flash, the programme mode will be cancelled.
- If you want to leave the SHOWVIEW mode, press the MENU button.
- When the VCR is in the timer mode (STEP 6) it can not be used for playback, watching TV programmes, etc. You must press the TIMER button again to cancel the timer mode, if you want to use the VCR.
- If the timer indicator is not lit on the FL display, timer recording will not operate.
- When timer recording is finished, the power will automatically be turned off.
- If the tape ends during recording it will automatically be ejected.
- VPS recording will be carried out if the VPS mode is set to ON ("VPS is lit on the FL display). VPS ON or OFF can only be selected when using the front panel display for timer programming (see pages 25/26).

SHOWVIEW IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORP. SHOWVIEW SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

TIMER RECORDING

VPS RECORDING

Because programmes may be broadcast earlier or later than advertised, VPS makes sure that your recordings will start and end at the same time as the actual broadcast (providing the station is sending a VPS signal).

For example, the TV guide may show the following programmes:

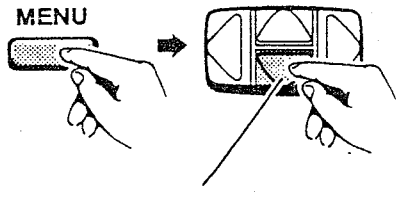
20:15 MOVIE
21:00 (VPS 20:50) NEWS
21:30 (VPS 21:25) DOCUMENTARY

To record the news programme, for example, you must set the start time 20:50 (VPS time) and the stop time to 21:30. If the VPS time is not entered the feature will not work.
Then, in step 11, set the VPS mode to ON (**if not using VPS set to OFF**).

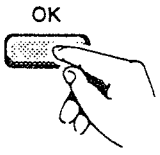
THE REMOTE CONTROL MUST BE POINTING AT THE VCR DURING THIS OPERATION.

FIRST LOAD A TAPE.

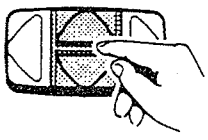
1 Select PROGRAMM mode



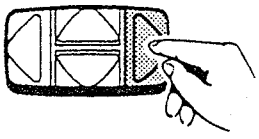
2 Enter programme mode



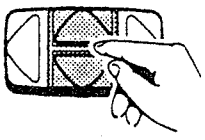
3 Select empty programme



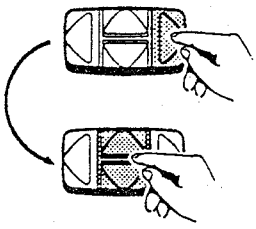
4 Move to start time hour



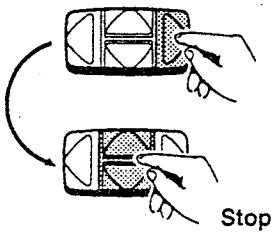
5 Set start time hour



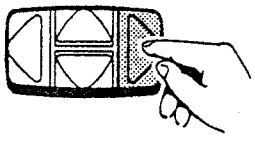
6 Move to/set minutes



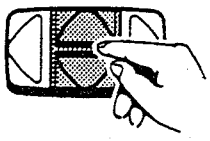
7 Move to/set stop time



8 Move to the date

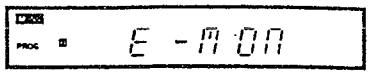


9 Set the Day

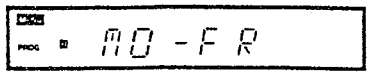


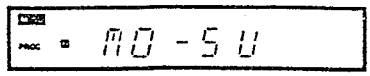
To set the VCR for automatic daily or weekly recording, keep pressing the ∧ button until the following displays appear:

Weekly Recording



Daily Recording

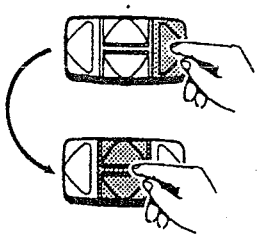


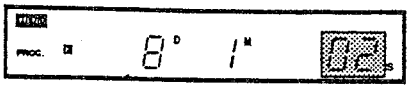


E-SUN : Every Sunday
E-MON : Every Monday
E-TUE : Every Tuesday
E-WED : Every Wednesday
E-THU : Every Thursday
E-FRI : Every Friday
E-SAT : Every Saturday

MO-FR : Monday to Friday
MO-SU : Monday to Sunday

10 Move to / set TV channel

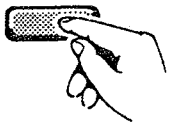




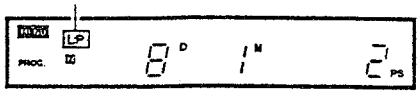
G445 MODEL ONLY

Set the tape speed

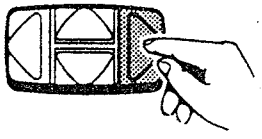
SP/LP



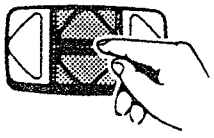
LP : Long Play (twice normal recording time)
No display : Normal speed



11 Move to VPS mode

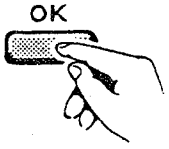


12 Set VPS ON or OFF

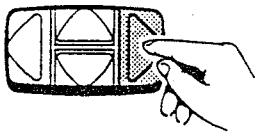


13 Leave programme mode or go to next programme

OK



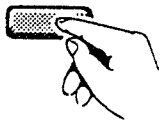
OR



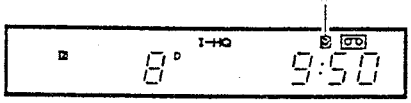
Press > then continue from step 3.

14 Set the VCR to timer mode

TIMER



Timer indicator



NOTES

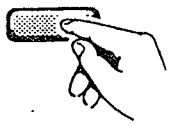
- **STEP 9:** To change the month, press the > button to move to the PS position, then press the < button to move to the month. Use the ∧ and ∨ buttons to enter the month, then press the > button to go to step 10.
- **STEP 10:** If recording from an external device, set the VCR to "AU" by pressing the ∧ / ∨ buttons.
- **STEP 13:** To correct any of the data before pressing the OK button, use the <, >, ∧ and ∨ buttons.
- **STEP 14:** If there is no tape loaded, the timer mode will not engage. In this case, load a tape and press TIMER again. If the tape's recording protection tab is removed, the tape will be ejected when TIMER is pressed.
- Only programme numbers with data entered will light on the FL display.
- If you do not enter data within 5 minutes of the position starting to flash, the programme mode will be cancelled.
- Press CANCEL if you want to cancel all the data.
- To quit the programming mode, press MENU at any time.
- When the VCR is in the timer mode (STEP 14) it can not be used for playback, watching TV programmes, etc. You must press the TIMER button again to cancel the timer mode, if you want to use the VCR.
- If the timer indicator is not lit on the FL display, timer recording will not operate.
- When timer recording is finished, the power will automatically be turned off.
- If the tape ends during recording it will automatically be ejected.

PROGRAMME LIST/CANCELLING TIMER PROGRAMMES

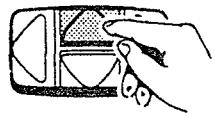
This lets you review the times, dates etc., that you have entered for timer recording.

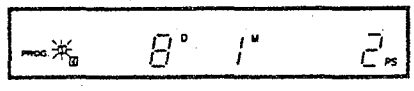
1 Display first programme

PROG. LIST

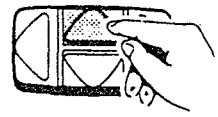


2 Go to date/channel





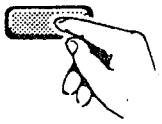
3 Go to next programme



Repeat until finished

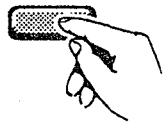
4 Quit programme list

MENU

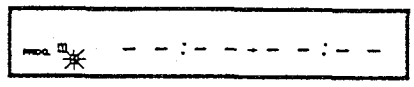


CANCELLING PROGRAMMES

CANCEL



Press when the programme that you want to cancel is displayed:



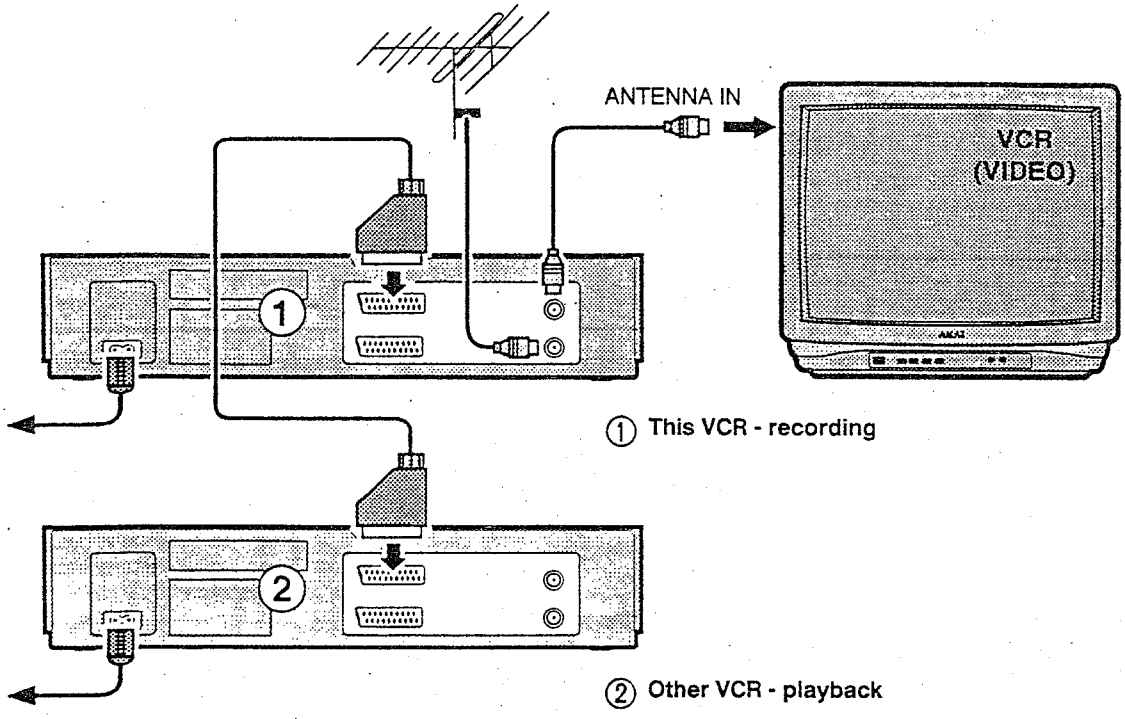
NOTES

- If you want to change any of the data, press the > button (when the data is displayed).
  Use the <, >, ∧ and ∨ buttons to enter the new data, then press OK.
- Press MENU at any time to quit the programme list.

COPYING VIDEO TAPES

Connect the VCRs as shown below, then turn the power on.

These instructions are for using this VCR as the recording VCR.



① This VCR - recording

② Other VCR - playback

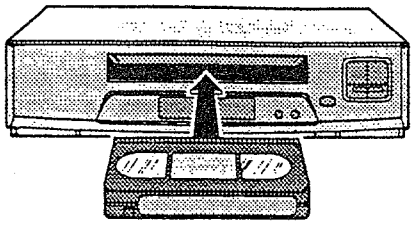
PLEASE REFER TO THE NEXT PAGE FOR OPERATING INSTRUCTIONS

1 Set TV to video channel

(See page 7)

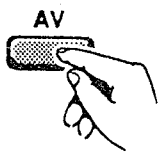
2 Load a tape

Blank tape into this VCR.
Tape to be copied into the other VCR.



(The above illustration shows the G245 model)

3 Select external channel



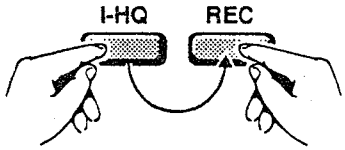
G445 MODEL ONLY

Set the tape speed

LP : Long Play (twice normal recording time)
No display : Normal speed

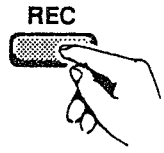
4 Start the I-HQ mode

Remote control



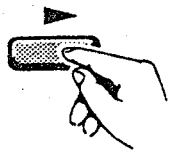
Press I-HQ then REC, hold both down until "I-HQ" lights on the FL display. When "I-HQ" stops flashing (about 15 seconds), press REC.

5 Start recording with this VCR



Hold down until a red circle appears on the FL display.

6 Start playback of tape to be copied ②



NOTES

- **STEP 4:** You can also press the ▶◀/II/I► button to go to the recording pause mode and then press REC when you want to start recording.
- When recording has finished, press the CHANNEL buttons to leave the external mode.
- NTSC pre-recorded tapes can not be copied with this VCR.

TROUBLESHOOTING

Should you have any problems during the operation of this VCR, please check that all the controls are set to their proper positions and that all cables are properly connected (refer to this manual for the correct procedures). If a problem persists, refer to the advice below.
If the problem can not be corrected with the instructions below, write down the model and serial number and all pertinent data regarding warranty coverage, as well as a clear description of the problem, and contact your nearest AKAI service centre.

PROBLEM	CHECK POINT
There is no power to the VCR.	Is the mains lead plugged in?
The eject button does not work.	If the VCR is in the timer mode the eject button will not work,press the TIMER button to cancel. If the VCR is in the recording mode press the stop button then eject.
There is no picture on the TV screen.	Is the TV set to the video channel? Is the antenna connected correctly? Is the "AU" indicator lit on the FL display? If so press the CHANNEL buttons to cancel it. Is the VCR in the correct mode?
The VCR will not record.	Is the recording defeat tab of the video tape removed? If so cover the cavity with adhesive tape. The record button must be pressed for a few seconds to start recording. Is the "AU" indicator on the FL display lit? If so press the CHANNEL buttons to cancel it.
The VCR does not operate using the remote control.	Replace the batteries in the remote control.
Poor quality of all TV stations.	Check that the TV is properly tuned to the video channel. Check the antenna connections. Is the TV set to VCR?
The video tape is ejected when the record button is pressed.	Is the recording defeat tab removed on the video tape? If so cover the cavity with adhesive tape.
There are disturbances in the playback picture.	Adjust with the < / > buttons.
The FL display is flashing.	A power failure has occured (exceeding 60 minutes). The clock and programme data will have to be reset.
The quick finder does not function.	Check that the VCR is in the playback mode.
Timer recording does not function.	Is the clock set to the correct time? Are the date, start and stop times correctly set?
"Err 1 or 2" appears on the FL display	Press the POWER button a few times. The display should disappear. If the display remains on the FL display, contact your Akai service centre.
"Err 3" appears on the FL display	This usually indicates condensation in the VCR. Wait 1 hour and then press the POWER button a few times. The display should disappear. If the display remains on the FL display, contact your Akai service centre.

Note:
- When you have finished using the VCR, eject the cassette and turn the power off.
- The VCR may become warm during operation, this is normal and does not indicate a fault. However, make sure that the VCR is well ventilated, and do not place anything on top of the ventilation holes.

SPECIFICATIONS

Format ..... VHS standard (PAL, MESECAM)
Video recording system .... Rotary, slant azimuth two-head helical scan system
Rotary heads ..... ~~4 video heads (G455)~~
2 video heads ~~(G255)~~
RF. input ..... System B, G (PAL, SECAM)
VHF ch 2 - 4, 5 -12
UHF ch 21 - 69
Cable ch S1' - S3', S1 - S41
RF output ..... System G
UHF ch 30 -39
(preset ch 36)
Recording (line input) ..... PAL, SECAM (MESECAM Tape)
Playback (line output) ..... PAL, SECAM (MESECAM Tape)
Simulated PAL (NTSC tape)

Video
Line input level ..... 0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level ..... 1.0 Vp-p/75 ohms, unbalanced
S/N ratio ..... More than 45 dB
Horizontal resolution ..... More than 250 lines

Audio
Line input level ..... -6dBm/50 K ohms, unbalanced
Line output level ..... -6dBm/2 K ohms, unbalanced
S/N ratio ..... More than 40 dB
Frequency response ..... 70-8,000 Hz

Recording/playback time
CCIR
SP mode ..... 240 min. with E-240 cassette
~~LP mode ..... 480 min. with E-240 cassette (G455 model only)~~
NTSC
SP mode ..... 160 min. with T-160 cassette
~~EP mode ..... 480 min. with T-160 cassette (G455 model only)~~

Tape speed
CCIR
SP mode ..... 23.39 mm/sec
~~LP mode ..... 11.695 mm/sec (G455 model only)~~
NTSC
SP mode ..... 33.35 mm/sec
~~EP mode ..... 11.12 mm/sec (G455 model only)~~

Quick finder ..... Approx. 5 times normal speed

FF, REW time ..... Approx. 2 min. 20 sec. with E-180 cassette

Timer
Programme ..... 4 programme / 1 year and OTR
Clock reference ..... Quartz crystal
Display ..... FL (Tape counter, Timer etc.)
Power requirements ..... 220-240 V AC, 50 Hz
Power consumption ..... 16 W
Operating temperature ..... 5°C - 40°C
Dimensions ..... 380(W) × 90(H) × 276(D) mm
Weight ..... 4.0 kg

Standard accessories
AC power cable 1
Antenna cable 1
Remote control unit 1
Batteries for remote control 2

- For improvement purposes, specifications and design are subject to change without notice.

Maintenance

When a dirty tape is used, dirt will accumulate on the video heads. This will cause disturbances on the TV screen which cannot be eliminated with the VCR's tracking control or the TV's fine tuning control. If this should occur, the heads as well as other internal parts must be cleaned. VCR cleaning must be done by a qualified service shop or an authorized AKAI service centre. This VCR is a finely precisioned instrument, and contains no customer serviceable parts, so never open the VCR yourself. Take it to a qualified service shop or to an authorized AKAI service centre to be cleaned.